US-PGPUB EPC, JPO DERWENT US-PGPUB EPC, JPO DERWENT US-PGPUB EPC, JPO DERWENT US-PGPUB EPO JPO DERWENT U	earc	Hits	Hits		DB	Time stamp
2003/01/1 19408 electromagnetic adj wave adj shielding or parabolic adj antenna adj reflecting 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1		633	633		USPAT;	2003/01/10 11:58
2003/01/1					US-PGPUB;	
2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003					EPO; JPO;	
### antenna adj reflecting ### antenna adj reflecting ### multi-filament or multifilament ### antenna adj reflecting ### multi-filament or multifilament ### antenna adj reflecting ### antenna adj reflecting) and (imulti-filament ### antenna adj steel adj wire ### antenna adj steel adj wire ### antenna adj steel adj wire ### antenna adj reflecting) and (imulti-filament or multifilament					DERWENT	
antenna adj reflecting	ectr	3751	3751	ave adj shjelding or parabolic adj	USPAT;	2003/01/10 15:10
19408 multi-filament or multifilament Sepo. JPO. DERWENT USPAT. US-PGPUB. EPO. JPO. DERWENT US-PGPUB. EPO. JPO. DERWENT US-PAT. US-PGPUB. EPO. JPO. DERWENT US-				,		
19408 multi-filament or multifilament DERWENT USPAT USPGBUB, EPO, UPO, DERWENT USPAT, USPGBUB, EPO, UPO, DERWENT USPAT, USPGBUB, EPO, UPO, DERWENT USPAT, USPAGBUB, EPO, UPO, DERWENT USPAT, USPAT, USPAGBUB, EPO, UPO, DERWENT USPAT, USPAGBUB, EPO, UP						
19408 multi-filament or multifilament USPAT						
19611 multi-filament or multifilament or multi adj filament US-PG-PUB, EPO_JPO, DERWENT USPAT, US-PG-PUB, EPO_JPO,	aulti-	9408	19408	filament		2003/01/10 15:10
19611 multi-filament or multifilament or multi adj filament USPAT, US-PG-PUB, EPO, JPO, DERWENT		, , , ,				
Table Tabl						
1961		1				
US-PGPUB PO, JPO, DERWENT USPAT. 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 2003/01/1 200	aulti-	9611	19611	filament or multi adi filament		2003/01/10 15:10
PCPO_JPO_DERWENT USPAT; US_PGPUB; PO_JPO_DERWENT USPAT; US_P				,, <u></u>		
2003/01/0 73 9168 stainless adj steel adj wire DERWENT USPAT, US-PGPUB, EPO, JPO, DERWENT USPAT, US-PGPUB, EPO, JPO, DERWENT USPAT, antenna adj reflecting) and ((multi-filament or multifilament or mul		l				
3		ļ				
US-PGPUB EPO; JPO DERWENT US-PGPUB EPO; JPO DERWEN	ainl	3168	9168	wire		2003/01/10 15:12
Celectromagnetic adj wave adj shielding or parabolic adj antenna adj reflecting) and ((multi-filament or multifilament or strand) 12093/01/01/01/01/01/01/01/01/01/01/01/01/01/	ann	,,,,,	5100	MIC		2000,01,1010.12
75						
1209966 Giber or filament or strand 1209966 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 1730000 173000 173000 173000 173000 173000 173000 1730000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 173000 1730000 1730000 1730000 1730000 1730000 1730000 17300000 1730000000						
antenna adj reflecting) and ((multi-filament or multifilament or multi adj filament) with (stainless adj steel adj wire) 74 25 (multi-filament or multifilament or multi adj filament) with (stainless adj steel adj wire) - 5830 428/222,364,365,373,377,371,379,442/310,316,197,228,229,37689786is US-PGPUB, EPO, JPO, DERWENT USPAT; US-PGPUB, EPO, JPO, DERWENT US-PGPUB, EPO, JPO, JPO, JPO, DERWENT US-PGPUB, EPO, JPO, JPO, JPO, DERWENT US-PGPUB, EPO, JPO, JPO, JPO, JPO, JPO, JPO, JPO, J	loct	ا م	0	ovo adi shioldina or parabolic adi		2003/01/10 15:12
multi adj filament) with (stainless adj steel adj wire) EPO, JPO, DERWENT USPAT; USPGPUB; EPO, JPO, DERWENT USPAT; US-PGPUB; EPO, JPO, DERWENT USPAT; US		١	U			2003/01/10 13.12
74 25		ļ				
74	uiti	,		(stainless auf steel auf wire))		
Second S		25	25	ifile-mant or moulti adi filomant\ with		2003/01/10 15:12
EPO; JPO; DERWENT 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/		25	25			2003/01/10 13.12
DERWENT DERWENT 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/0 2003/01/	tain			wire)		
- 274863 water-soluble or water adj soluble						
SPGPUB, EPO, JPO; DERWENT USPAT; US-PGPUB, EPO; JPO; DERWENT US-PAT; US-PGPUB, EPO; JPO; DERWENT US-PGPUB, EPO; JPO; DER	2010		5000	077 074 070 440/040 040 407 000 000 0		2002/04/40 00:40
EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT US-PAT; US-PGPUB; EPO; JPO; DERW	28/2	2830	5830	3/7,3/1,3/9;442/310,316,197,228,229,3		2003/01/10 09:40
- 274863 water-soluble or water adj soluble - 1209966 fiber or filament or strand - 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 205 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 206 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core						
274863 water-soluble or water adj soluble						
1209966 fiber or filament or strand US-PGPUB; EPO, JPO; DERWENT US-PGPUB; EPO, JPO; DERWENT US-PGPUB; EPO, JPO; DERWENT US-PGPUB; EPO; J						0000/04/00 44 47
1209966 fiber or filament or strand EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; JPO; DERWENT US-PGPUB; EPO; JPO; JPO; DERWENT US-PGPUB; EPO; JPO; JPO; DERWENT US-PGPUB; EPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO; J	ater	1863	274863	adj soluble		2003/01/08 14:17
- 1209966 fiber or filament or strand - 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 205 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) with core 10379 (water-soluble or water adj soluble) adj (fiber or filament or strand) 2003/01/0 - 173000 helical 2003/01/0						
1209966 fiber or filament or strand USPAT; US-PGPUB; EPO; JPO; DERWENT US-PGPUB;						
- 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core US-PGPUB; EPO; JPO; DERWENT US-PGPUB						0000104100 4400
- 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 205 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core	oer (3966	1209966	and		2003/01/08 14:20
- 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core						
- 10379 (water-soluble or water adj soluble) with (fiber or filament or strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core						
strand) - 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core 2003/01/0						
- 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core EPO; JPO; DERWENT US-PGPUB; EPO; JPO;		ງ379	10379	r adj soluble) with (fiber or filament or		2003/01/08 14:26
- 173000 helical (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB	rand					
- 682 (water-soluble or water adj soluble) adj (fiber or filament or strand) - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core 2003/01/0						
strand) - 173000 helical - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core Strand US-PGPUB; EPO; JPO; DERWENT US-PGPUB;						
- 173000 helical - 173000 helical - 173000 helical - 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core 2003/01/0		682	682	r adj soluble) adj (fiber or filament or		2003/01/08 14:21
- 173000 helical DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; US-PGPUB; EPO; JPO;	rand					
- 173000 helical USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; US-PGPUB; EPO; JPO; US-PGPUB; EPO; JPO;						
- 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; US-PGPUB; EPO; JPO;		1				
- 205 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core EPO; JPO; DERWENT US-PGPUB; EPO; JPO; DERWENT US-PGPUB; EPO; JPO;	elica	3000	173000			2003/01/08 14:21
- 205 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core DERWENT US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO;		ļ				
- 3 ((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical - 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core 2003/01/0 2003/01/0 2003/01/0 2003/01/0		1				
strand)) and helical US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; US-PGPUB; EPO; JPO;						
- 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO;		3	3	er adj soluble) adj (fiber or filament or		2003/01/08 14:21
- 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core DERWENT USPAT; US-PGPUB; EPO; JPO;	rand					
- 205 ((water-soluble or water adj soluble) with (fiber or filament or strand)) with core USPAT; US-PGPUB; EPO; JPO;						
strand)) with core US-PGPUB; EPO; JPO;		}				
EPO; JPO;		205	205	er adj soluble) with (fiber or filament or		2003/01/08 14:26
	rand	}				
PERWENT						
					DERWENT	
		5	5	" "3013588" "3224466"	USPAT	2003/01/08 16:32
"3399521").PN.						
- 6 3602964.URPN. USPAT 2003/01/0	3029	6	6		USPAT	2003/01/08 16:32

-	56	(((water-soluble or water adj soluble) with (fiber or filament or	USPAT;	2003/01/08 16:49
		strand)) with core) and (metal or metallic or steel)	US-PGPUB; EPO; JPO;	:
	Ì		DERWENT	
-	3761970	metal or metallic or steel	USPAT;	2003/01/08 16:50
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	0000/04/40 00 44
-	28121	(metal or metallic or steel) adj (fiber or filament or strand)	USPAT;	2003/01/10 09:41
			US-PGPUB;	
			EPO; JPO; DERWENT	
	42	428/377.ccls. and ((metal or metallic or steel) adj (fiber or	USPAT;	2003/01/08 16:53
	72	filament or strand))	US-PGPUB;	2000/01/00 10:00
		manion or originally)	EPO; JPO;	
			DERWENT	
_	19	((water-soluble or water adj soluble) adj (fiber or filament or	USPAT;	2003/01/08 16:53
1		strand)) and ((metal or metallic or steel) adj (fiber or filament	US-PGPUB;	
		or strand))	EPO; JPO;	
			DERWENT	
-	104044	(metal or metallic or steel) adj ((fiber or filament or strand) or	USPAT;	2003/01/08 17:01
		wire)	US-PGPUB;	
			EPO; JPO;	
	191756	helical or helically	DERWENT USPAT:	2003/01/08 17:02
-	191730	Helical of Helically	US-PGPUB	2003/01/06 17:02
			EPO; JPO;	
			DERWENT	
_	2123	((metal or metallic or steel) adj ((fiber or filament or strand)	USPAT;	2003/01/08 17:02
		or wire)) with (helical or helically)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	22	(((metal or metallic or steel) adj ((fiber or filament or strand)	USPAT;	2003/01/08 17:04
		or wire)) with (helical or helically)) same (((water-soluble or	US-PGPUB;	
		water adj soluble) with (fiber or filament or strand)) or PVA or	EPO; JPO;	
	121326	polyvinyl) polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or	DERWENT USPAT;	2003/01/10 09:45
	121320	polyactic adj acid	US-PGPUB;	2003/01/10 09.43
			EPO; JPO;	
			DERWENT	
-	317654	(metal or metallic or steel) with (fiber or filament or strand or	USPAT;	2003/01/10 10:01
		wire)	US-PGPUB;	
			EPO; JPO;	
	1015		DERWENT	
-	1245	(polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or	USPAT;	2003/01/10 09:42
		polyactic adj acid) same ((metal or metallic or steel) with (fiber or filament or strand or wire))	US-PGPUB; EPO; JPO;	
		(moet of mathem of stratio of wire))	DERWENT	
_	10417	polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or	USPAT;	2003/01/10 09:46
		polyactic adj acid) with (fiber or filament or strand or wire)	US-PGPUB;	= 355,5 10 00, 10
		· · · · · · · · · · · · · · · · · · ·	EPO; JPO;	
			DERWENT	
-	924	((metal or metallic or steel) with (fiber or filament or strand or	USPAT;	2003/01/10 09:46
		wire)) same ((polyvinyl adj alcohol or PVA or co-nylon or	US-PGPUB;	
		co-polyamide or polyactic adj acid) with (fiber or filament or	EPO; JPO;	
	900074	strand or wire))	DERWENT	2002/04/40 00:40
_	892274	wound or wrapped or helical or helically or spiral or spirally	USPAT;	2003/01/10 09:48
			US-PGPUB; EPO; JPO;	
]		DERWENT	
_	26	(((metal or metallic or steel) with (fiber or filament or strand	USPAT;	2003/01/10 09:48
		or wire)) same ((polyvinyl adj alcohol or PVA or co-nylon or	US-PGPUB;	
		co-polyamide or polyactic adj acid) with (fiber or filament or	EPO; JPO;	
		strand or wire))) same (wound or wrapped or helical or	DERWENT	
		helically or spiral or spirally)		

-	19392	((metal or metallic or steel) with (fiber or filament or strand or	USPAT,	2003/01/10 10:03
		wire)) with (wound or wrapped or helical or helically or spiral	US-PGPUB;	
		or spirally)	EPO; JPO;	
			DERWENT	
_	3944	(((metal or metallic or steel) with (fiber or filament or strand	USPAT;	2003/01/10 10:05
		or wire)) with (wound or wrapped or helical or helically or	US-PGPUB,	
		spiral or spirally)) same core	EPO; JPO;	
			DERWENT	
_	3	2342098.URPN.	USPAT	2003/01/10 10:35
_	38	(((metal or metallic or steel) with (fiber or filament or strand	USPAT;	2003/01/10 11:36
		or wire)) with (wound or wrapped or helical or helically or	US-PGPUB;	
		spiral or spirally)) same (composite adj yarn)	EPO; JPO;	
			DERWENT	

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File: JPAB

Mar 18, 1987

PUB-NO: JP362061747A

DOCUMENT-IDENTIFIER: JP 62061747 A

TITLE: MANUFACTURE OF SPIRAL ELECTRIC WIRE

PUBN-DATE: March 18, 1987

INVENTOR - INFORMATION:

NAME

COUNTRY

SAKAI, TAKASHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI RAYON CO LTD

APPL-NO: JP60199079

APPL-DATE: September 9, 1985

INT-CL (IPC): B21F 3/04

ABSTRACT:

PURPOSE: To form a spiral electric wire which is excellent in flexibility and elasticity, by winding a conductive wire around a core material composed of a continuous threadlike material under a coil-like condition.

CONSTITUTION: A continuous threadlike substance 1 composed of a cellulose acetate stringe, water-soluble fiber, or thermoplastic threadlike material is used as the core material of the spiral electric wire of this invention. The threadlike substance 1 fed by feed rollers 4 is passed through the hole of a hollow rotary spindle 12, to which the bobbin 2 of a conductive wire 13 is fitted, and the conductive wire 13 is wound around the threadlike substance 1 pulled out by means of pulling-out rolls 5 under a coil-like condition. A cheese 3 obtained by covering the threadlike substance 1 with the conductor wire 13 in this manner is coated with an insulating material after the threadlike substance 1 is melted away or removed by fusion.

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